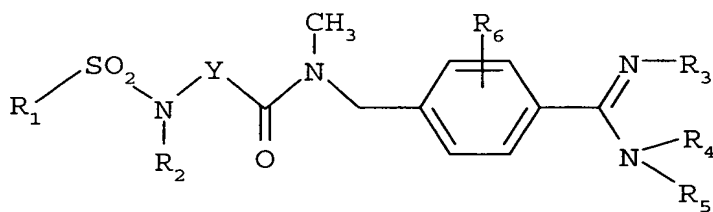


CLAIMS

- 5 1. Arylsulphonamide derivative, characterized in that it is chosen from among the group consisting of:
a) products of formula:



I

10 in which

R_1 represents an aromatic system that is non-substituted or substituted by one or more atoms or groups of atoms chosen from among the halogens, C_1 - C_3 alkyl groups, C_1 - C_3 alkoxy groups, nitro, cyano, trifluoromethyl or trifluoromethoxy,

15 R_2 represents a hydrogen atom or a C_1 - C_4 alkyl group optionally substituted by a phenyl group, by a $CONH_2$ group or by one or more fluorine atoms,

R_3 represents a hydrogen atom, a hydroxy group, or with R_4 forms a $-CH=N-$ group or a straight or branched C_2 - C_4 alkylene group,

R_4 represents a hydrogen atom or with R_3 forms a $-CH=N-$ group or a straight or branched C_2 - C_4 alkylene group,

20 R_5 represents a hydrogen atom or a C_1 - C_3 alkyl group,

R_6 represents a hydrogen atom or a halogen,

Y represents a C_2 - C_4 alkylene group, saturated or unsaturated, straight or branched, optionally interrupted between two carbon atoms by an oxygen atom

25 b) the addition salts of the above formula I compounds with an acid.

2. Compound as in claim 1, characterized in that R_1 represents a phenyl group substituted by one or more atoms or groups of atoms chosen from among a

halogen atom, preferably the chlorine atom, and C₁-C₃ alkyl groups and C₁-C₃ alkoxy groups.

3. Compound as in claim 1 or 2, characterized in that R₂ represents a C₁-C₄ alkyl group.

4. Compound as in any of claims 1 to 3, characterized in that R₃ and R₄ together form a C₂-C₃ alkylene group.

5. Compound as in any of claims 1 to 4, characterized in that R₅ and R₆ each represent a hydrogen atom.

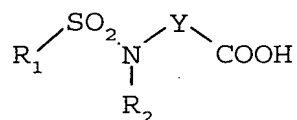
6. Compound as in any of claims 1 to 5, characterized in that Y represents a saturated C₂-C₄ alkylene chain optionally interrupted by an oxygen atom.

7. Compound as in claim 6, characterized in that Y represents a -(CH₂)₄- group.

8. Compound as in claim 6, characterized in that Y represents a -(CH₂)₂-O-CH₂- group.

9. Method for preparing a formula I compound such as defined in claim 1, and its addition salts, comprising the steps consisting of:

a) reacting an acid of formula:



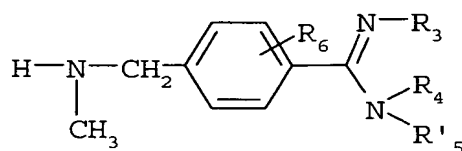
II

in which

R₁ represents an aromatic system that is non-substituted or substituted by one or more atoms or groups of atoms chosen from among the halogens, C₁-C₃ alkyl groups, C₁-C₃ alkoxy groups, nitro, cyano, trifluoromethyl or trifluoromethoxy,

R_2 represents a hydrogen atom, a C_1 - C_4 alkyl group optionally substituted by a phenyl group, by a $CONH_2$ group or by one or more fluorine atoms, and Y represents a C_2 - C_4 alkylene group, saturated or unsaturated, straight or branched, optionally interrupted between two carbon atoms by an oxygen atom,

5 with an amine of formula:



III

10 in which

R_3 represents a hydrogen atom or with R_4 forms a straight or branched C_2 - C_4 alkylene group,

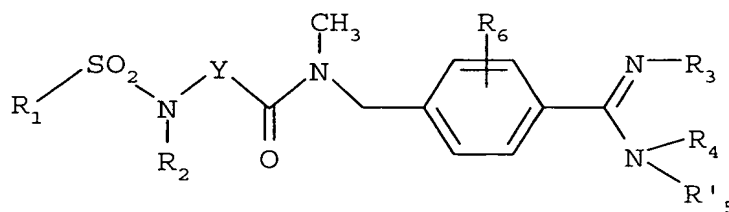
R_4 represents a hydrogen atom or with R_3 forms a straight or branched C_2 - C_4 alkylene group,

15 R'_5 represents a C_1 - C_3 alkyl group, a hydrogen atom or an amino-protecting group,

R_6 represents a hydrogen atom or a halogen,

the reaction being conducted in a solvent in the presence of at least one activator agent at a temperature generally lying between room temperature and

20 $60^\circ C$ and preferably for approximately 2 to 15 hours to obtain the amide of formula:



IV

in which R_1 , R_2 , R_3 , R_4 , R'_5 , R_6 and Y maintain the same meanings as in the

25 starting products,

b) if necessary, when the substituent R'_5 is an amino-protecting group, reacting the formula IV compound so as to remove the amino-protecting group and replace it by a hydrogen atom, thereby obtaining the formula I compound in which R_5 represents a hydrogen atom,

- 5 c) if necessary, reacting the formula IV or formula 1 compound obtained above with a mineral or organic acid to obtain the addition salt of the formula IV or formula I compound.

10 10. Therapeutic composition, characterized in that, in association with at least one physiologically suitable excipient, it contains at least one formula I compound according to any of claims 1 to 8, or one of its pharmaceutically acceptable addition salts with an acid.

15 11. Use of a formula I compound as in any of claims 1 to 8, or of one of its pharmaceutically acceptable addition salts with an acid, for the preparation of a medicinal product intended to treat pain.

20 12. Use of a formula I compound as in any of claims 1 to 8, or of one of its pharmaceutically acceptable addition salts with an acid, for the preparation of a medicinal product intended to treat inflammatory diseases.